FIG. 1

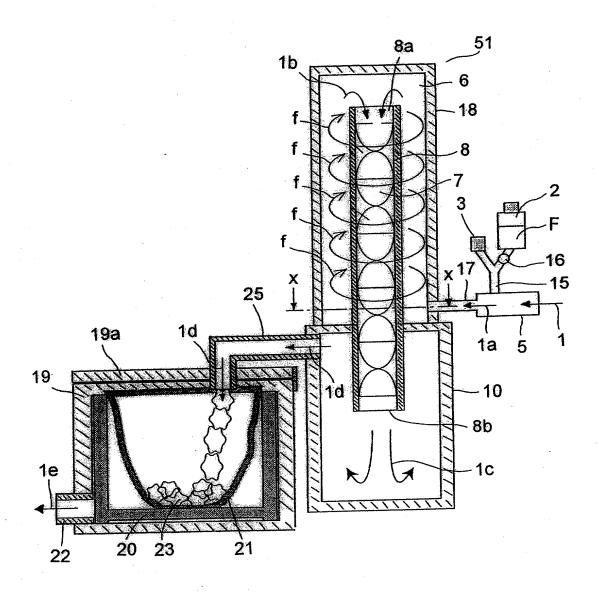


FIG. 2

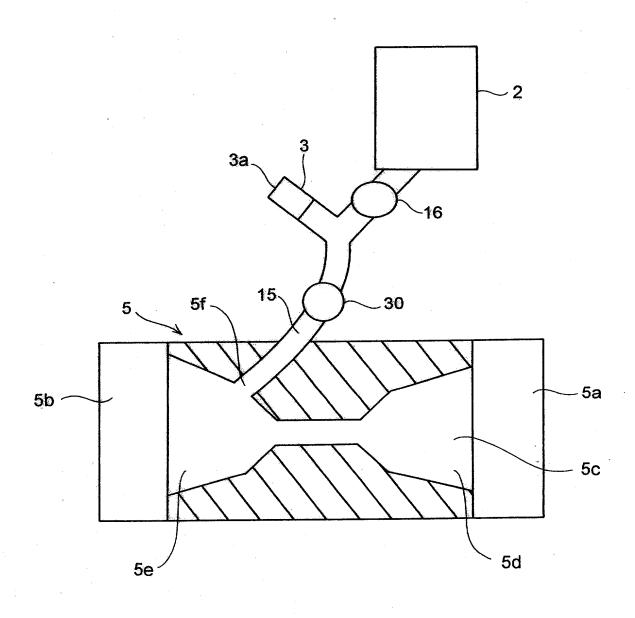
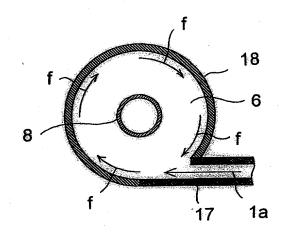
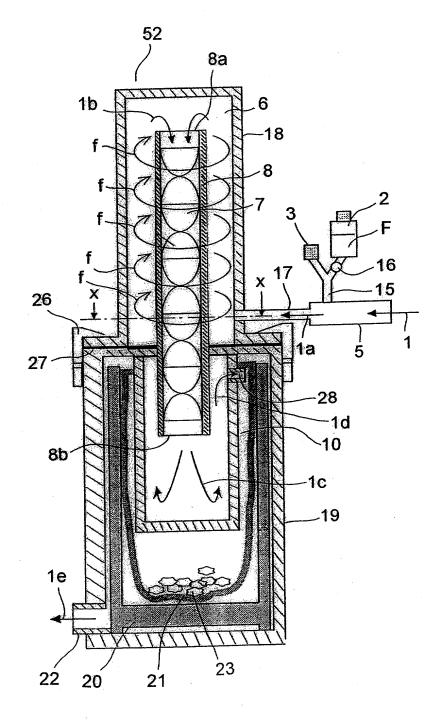


FIG. 3



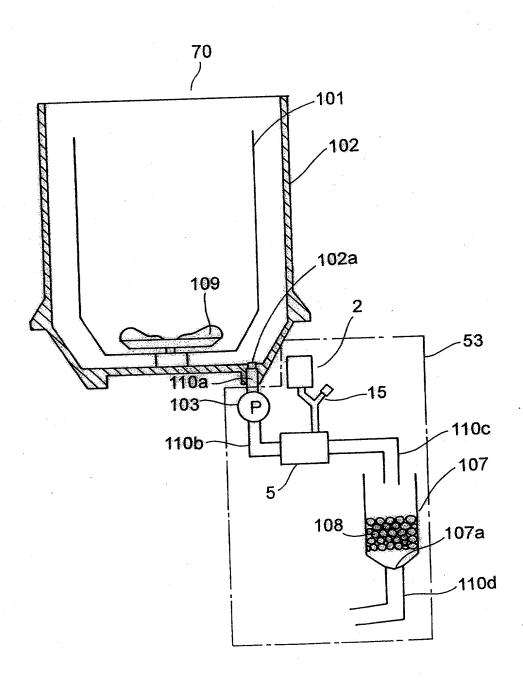
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FIG. 4



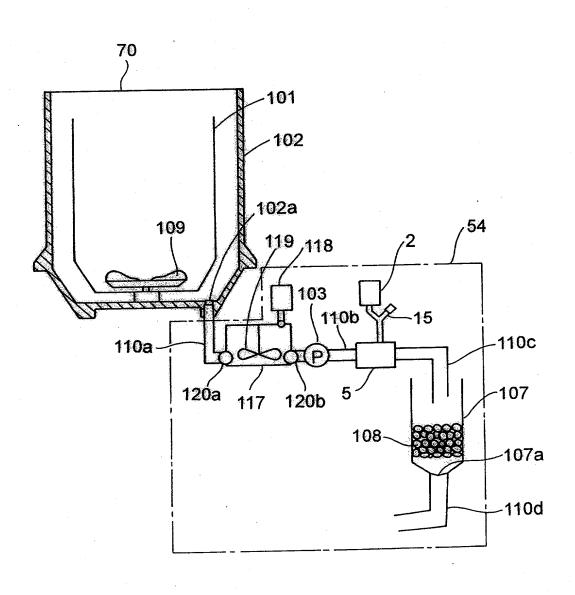
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FIG. 5



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FIG. 6



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FIG. 7

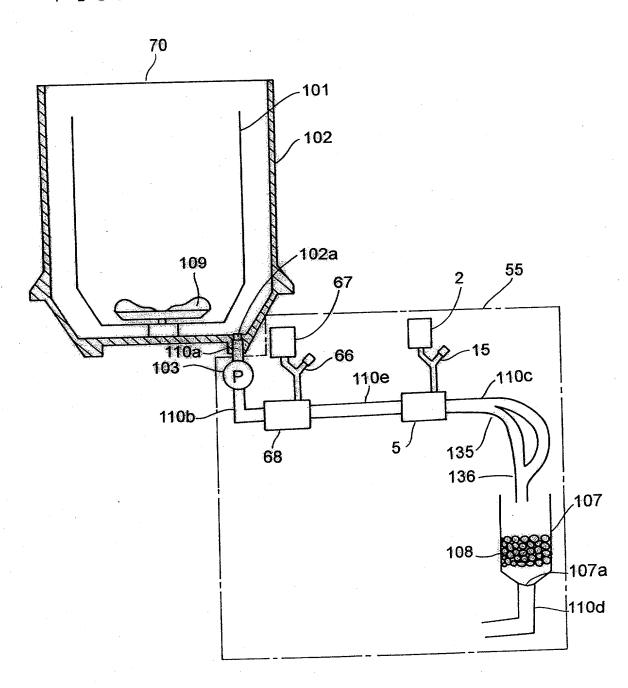


FIG. 8

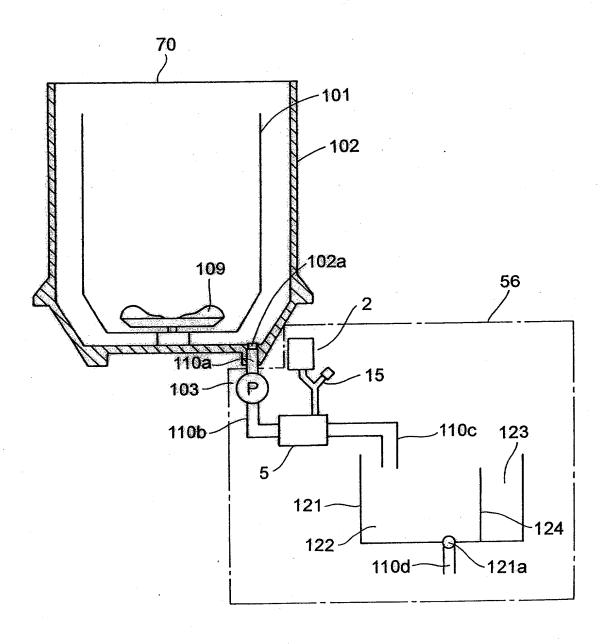
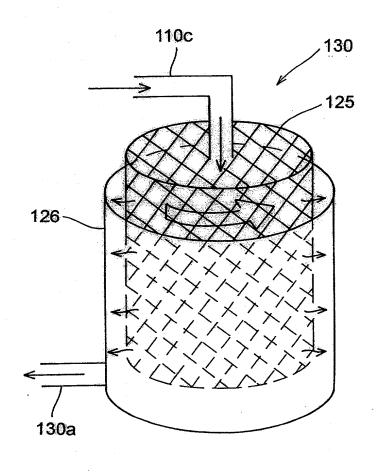


FIG. 9



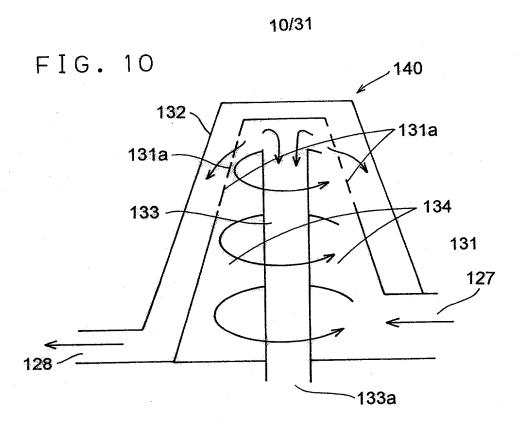


FIG. 11

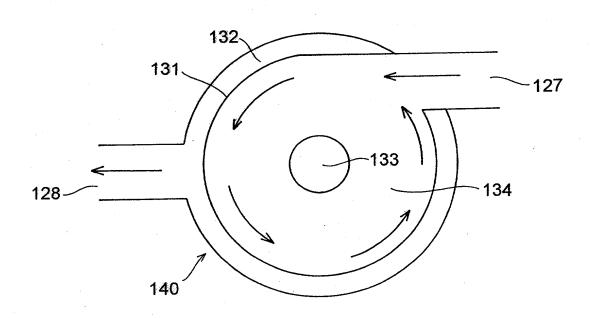
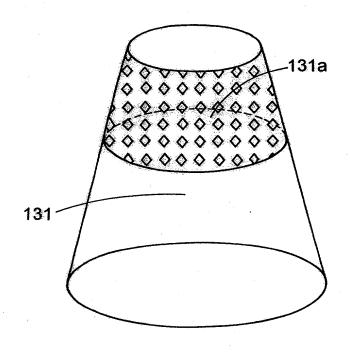
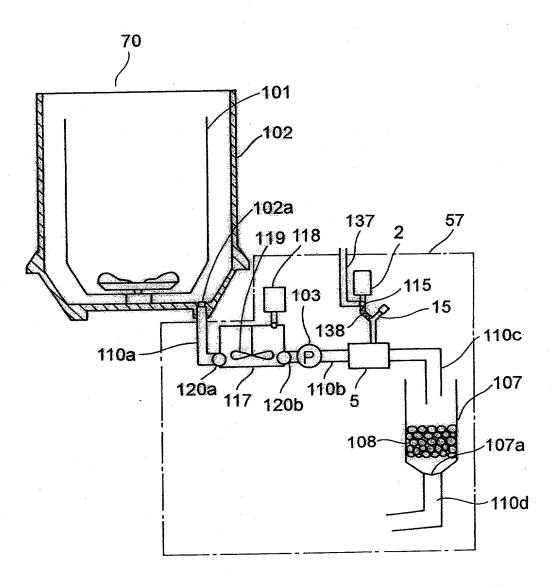


FIG.12



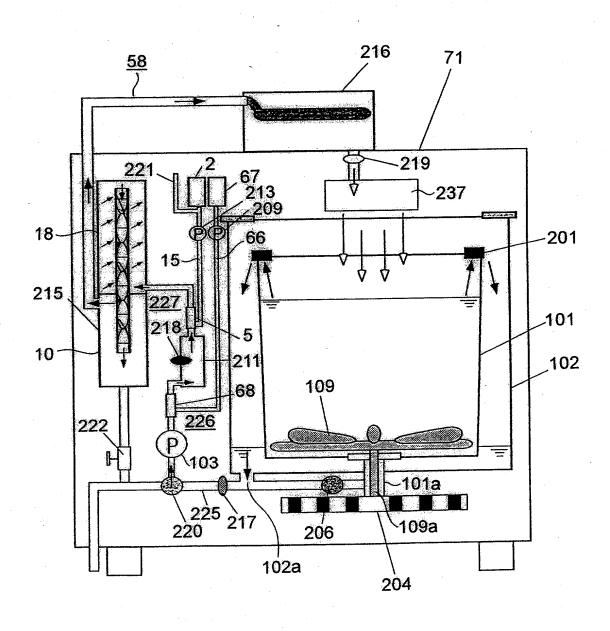
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FIG.13



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FIG.14



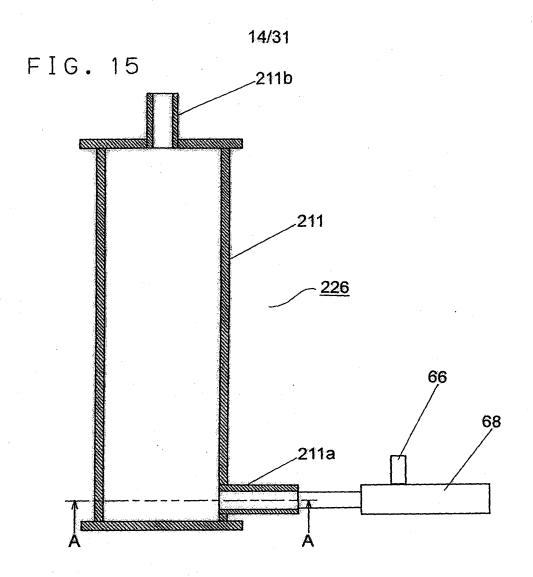
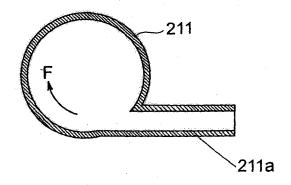


FIG. 16



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FIG. 17

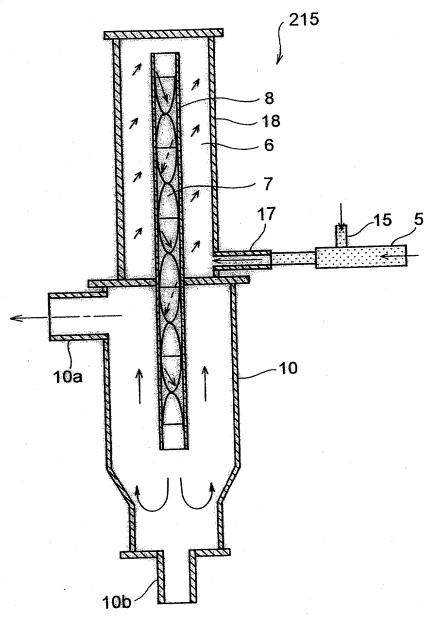
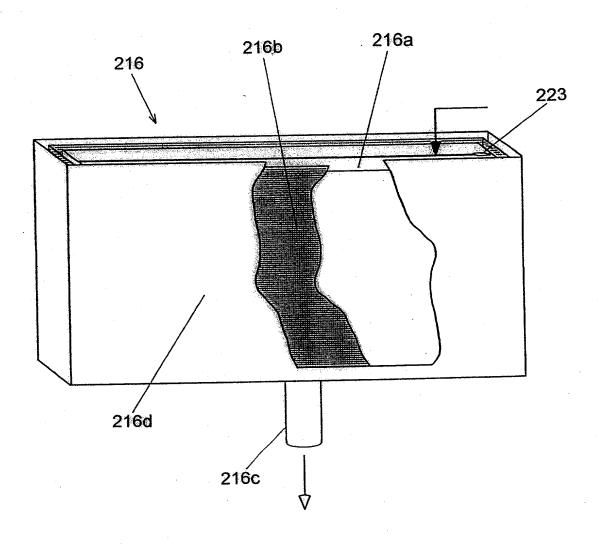


FIG. 18



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FIG. 19

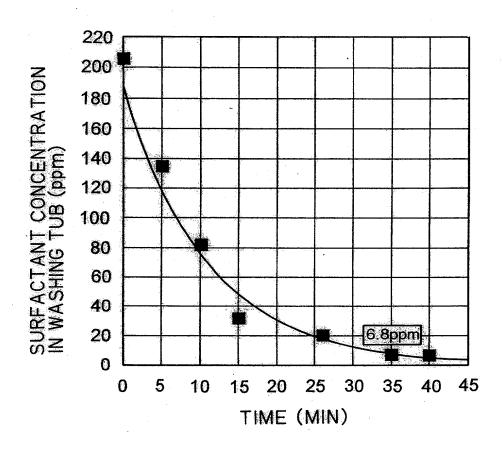
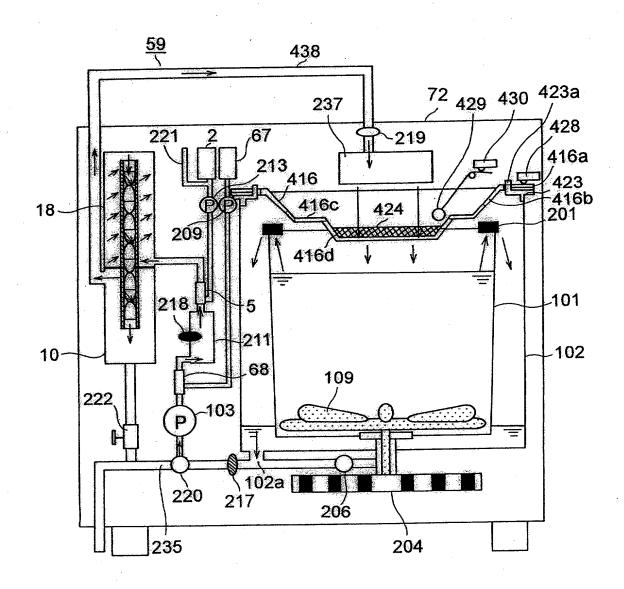
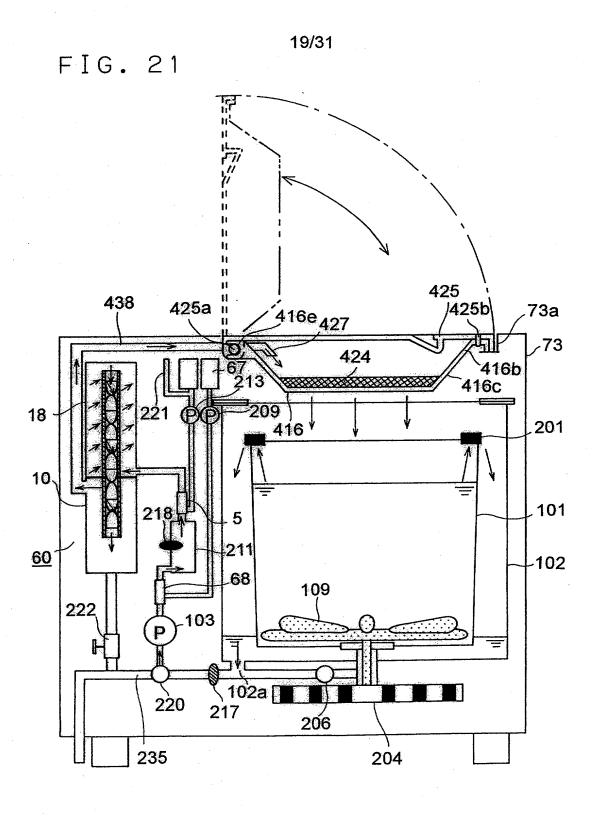


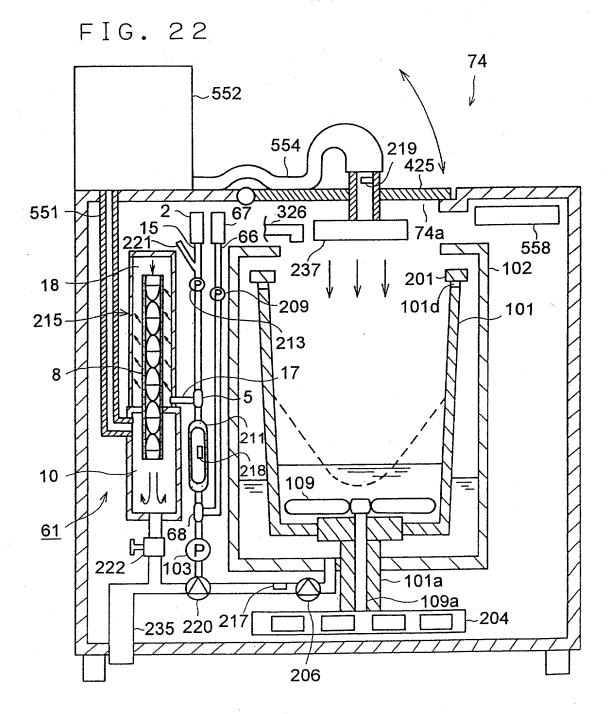
FIG. 20



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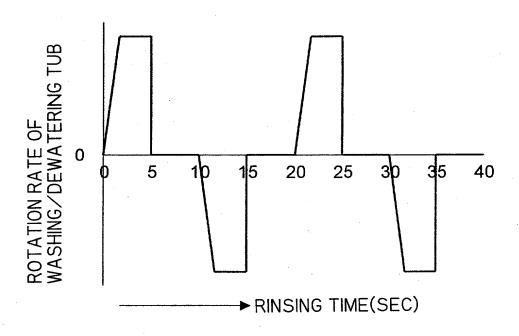


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FIG. 23



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FIG. 24

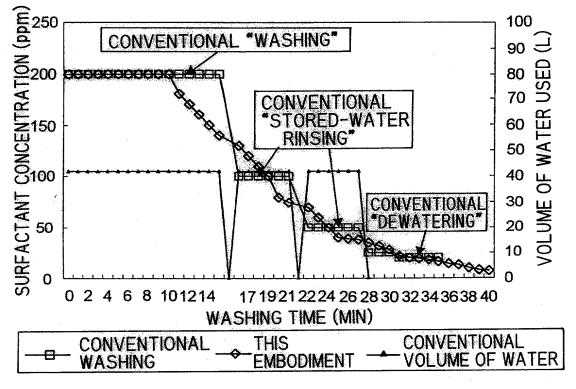


FIG. 25

	SURFACTANT CONCENTRATION IN WATER DISCHARGED IN FINAL DEWATERING(ppm)	TURBIDITY (NTU)
CONVENTIONAL RINSING	35	10.2
PURIFIED-WATER RINSING	20	1.5

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FIG. 26

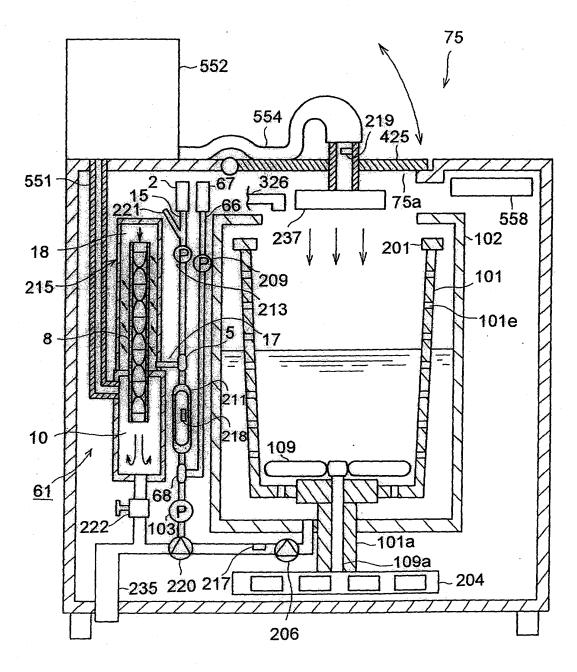


FIG. 27

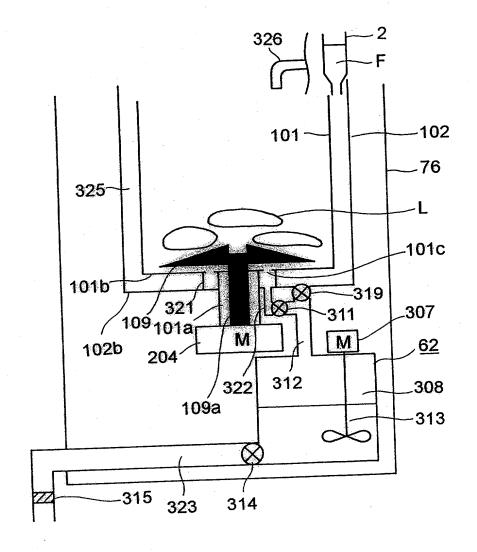
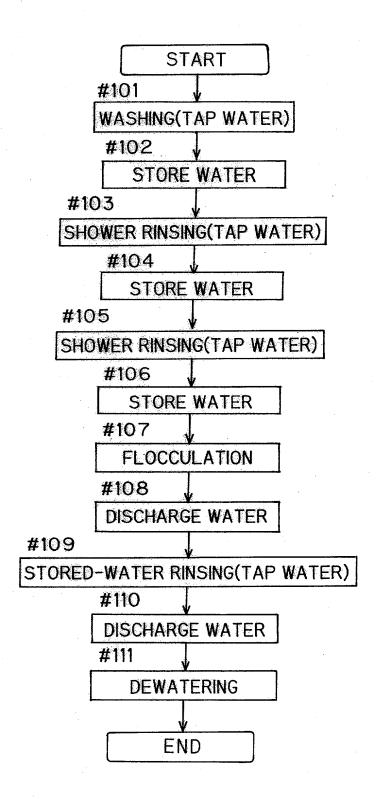


FIG. 28



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FIG. 29

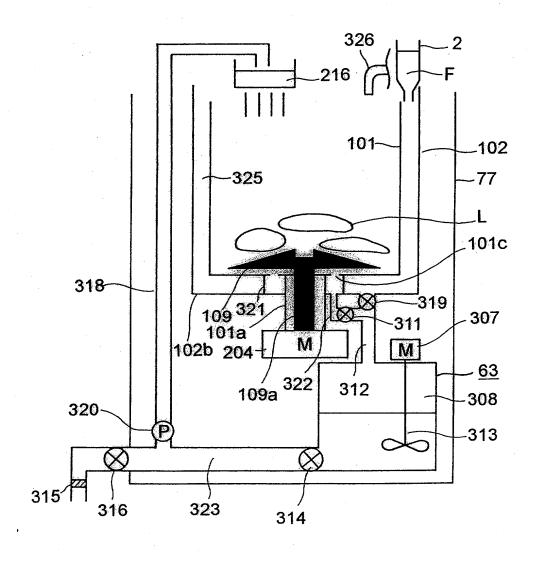
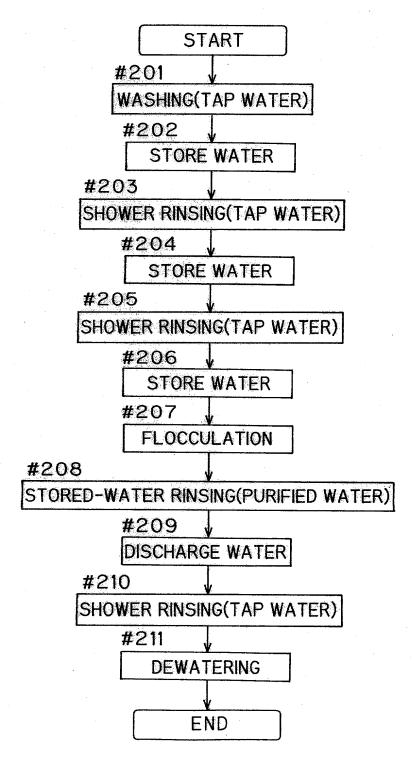
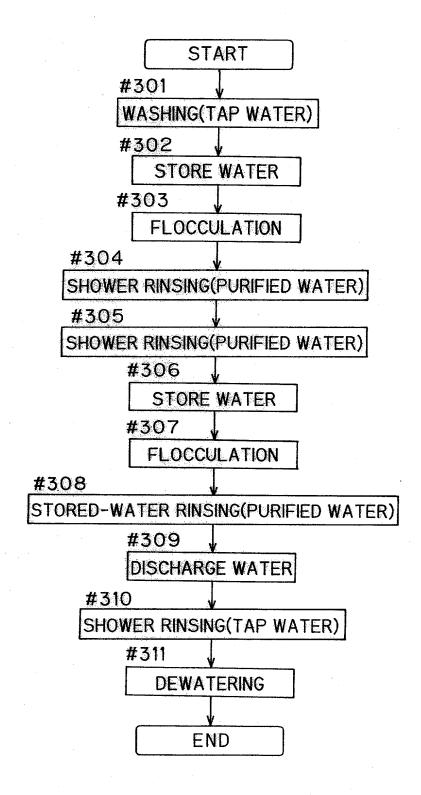


FIG. 30



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FIG. 31



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FIG. 32

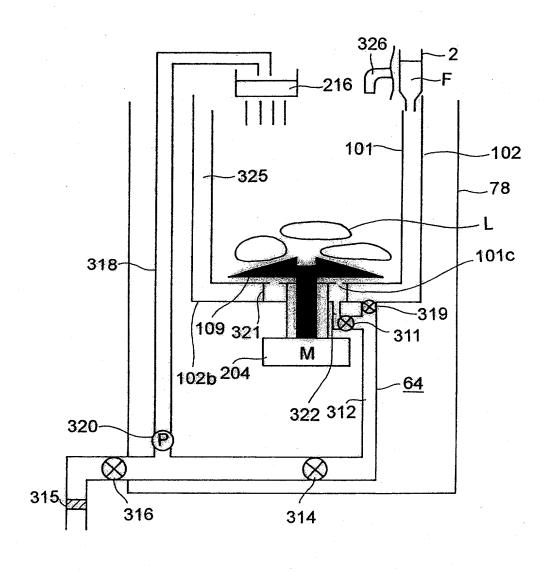


FIG. 33

FLOCCULANT WATER SOLUTION	FLOCCULANT	BASICITY	CONCENTRATION (ON AN Al2O3 BASIS)
TAKIBINE#1500	PAC	83	23.2%
TAKIBINE#100	AlCl ₃	0	11.5%

FIG. 34

	FLOCCULANT WATER SOLUTION	PAC:AICI3 (RATIO BY WEIGHT ON AN AI2O3 BASIS)	AMOUNT NEEDED (ON AN Al2O3 BASIS)	COLD WATER
COMPARATIVE EXAMPLE 1	RE-1	1:0	230mg/L	0
PRACTICAL EXAMPLE 1	SA-1	6:1	216mg/L	0
PRACTICAL EXAMPLE 2	SA-2	2:1	202mg/L	0
PRACTICAL EXAMPLE 3	SA-3	2:3	90mg/L	0
COMPARATIVE EXAMPLE 2	RE-2	0:1	60mg/L	×

FIG. 35

PAC ADDED (mL/L)	HCI ADDED (mL/L)	WASTEWATER pH	SURFACTANT REMOVAL RATE (%)
1.75	0	5.5	96.0
1.75	0.25	4.3	97.6
1.75	0.5	3.6	97.9